

INTERNATIONAL SEARCH REPORT

PCT/GB2004/000695

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C07D281/10 C07D337/08 A61K31/38 A61K31/554 A61P3/06

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07D A61K A61P

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, CHEM ABS Data, WPI Data, EMBASE, BIOSIS, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X,P	WO 03/022825 A (ASTRAZENECA UK LTD ; ASTRAZENECA AB (SE); BLOMBERG DAVID (SE); STARKE) 20 March 2003 (2003-03-20) cited in the application method 2, example 2	1,3,5-9
X	DATABASE CAPLUS 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; NAGASE, TOSHIO ET AL: "Preparation of benzothiazepine derivatives with activity of bringing about high blood GLP-1 concentration" XP002288326 retrieved from STN Database accession no. 2002:521715 abstract -/-	1,3,5, 7-9,14, 15,18

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

& document member of the same patent family

Date of the actual completion of the international search

21 July 2004

Date of mailing of the international search report

05/08/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Frelon, D

INTERNATIONAL SEARCH REPORT

PCT/GB2004/000695

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
	-& WO 02/053548 A1 (BANYU PHARMACEUTICAL CO., LTD., JAPAN) 11 July 2002 (2002-07-11) examples 1167,1275	
Y	WO 02/08211 A (NEUMANN WILLIAM L ; G D SEARLE LLC (US); KOELLER KEVIN J (US); TREMONT) 31 January 2002 (2002-01-31) the whole document	1-25
Y	WO 00/47568 A (KOLODZIEJ STEVE A ; TOLLEFSON MICHAEL B (US); REITZ DAVID B (US); SEAR) 17 August 2000 (2000-08-17) cited in the application the whole document	1-25
Y	WO 00/01687 A (LEE LEN F ; REITZ DAVID B (US); SEARLE & CO (US); LI JINGLIN J (US); B) 13 January 2000 (2000-01-13) cited in the application the whole document	1-25
Y	WO 97/33882 A (LEE LEN F ; REITZ DAVID B (US); SEARLE & CO (US); LI JINGLIN J (US); B) 18 September 1997 (1997-09-18) cited in the application the whole document	1-25
Y	WO 96/05188 A (WELLCOME FOUND ; BRIEADDY LAWRENCE EDWARD (US)) 22 February 1996 (1996-02-22) cited in the application the whole document	1-25
Y	WO 96/08484 A (MONSANTO CO ; LEE LEN FANG (US); MILLER RAYMOND EUGENE (US); TREMONT S) 21 March 1996 (1996-03-21) cited in the application the whole document	1-25
A	LEWIS M C ET AL: "EFFECTS OF 2164U90 ON ILEAL BILE ACID ABSORPTION AND SERUM CHOLESTEROL IN RATS AND MICE" JOURNAL OF LIPID RESEARCH, BETHESDA, MD, US, vol. 36, no. 5, May 1995 (1995-05), pages 1098-1105, XP000908869 ISSN: 0022-2275 the whole document	1-25
A	EP 0 864 582 A (HOECHST AG) 16 September 1998 (1998-09-16) cited in the application abstract; claims	1-25

INTERNATIONAL SEARCH REPORT

PCT/GB2004/000695

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
Although claim 17 is directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

Information on patent family members

PCT/GB2004/000695

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 03022825	A	20-03-2003	CA 2459457 A1 EP 1427713 A1 WO 03022825 A1	20-03-2003 16-06-2004 20-03-2003
WO 02053548	A1	11-07-2002	NONE	
WO 0208211	A	31-01-2002	US 2002183307 A1 AU 8081001 A WO 0208211 A2 US 2004077625 A1	05-12-2002 05-02-2002 31-01-2002 22-04-2004
WO 0047568	A	17-08-2000	AU 3694600 A CA 2362147 A1 CN 1346351 T EP 1155007 A2 HU 0105409 A2 JP 2002536440 T WO 0047568 A2 ZA 200106252 A	29-08-2000 17-08-2000 24-04-2002 21-11-2001 29-05-2002 29-10-2002 17-08-2000 30-07-2002
WO 0001687	A	13-01-2000	US 5994391 A AT 256122 T AU 766957 B2 AU 4820299 A BG 105206 A BR 9911737 A CA 2336315 A1 CN 1312805 T DE 69913530 D1 DK 1091953 T3 EE 200100002 A EP 1091953 A1 HR 20010004 A1 HU 0102840 A2 ID 28221 A JP 2002519418 T NO 20010016 A NZ 509621 A PL 346324 A1 PT 1091953 T SI 1091953 T1 SK 20302000 A3 TR 200100824 T2 WO 0001687 A1 US 6107494 A US 6262277 B1 US 2002013476 A1 ZA 200100028 A	30-11-1999 15-12-2003 30-10-2003 24-01-2000 28-09-2001 11-12-2001 13-01-2000 12-09-2001 22-01-2004 13-04-2004 17-06-2002 18-04-2001 31-12-2001 28-01-2002 10-05-2001 02-07-2002 02-03-2001 29-08-2003 11-02-2002 30-04-2004 30-06-2004 06-11-2001 23-07-2001 13-01-2000 22-08-2000 17-07-2001 31-01-2002 25-07-2001
WO 9733882	A	18-09-1997	AU 723123 B2 AU 2326697 A BR 9708042 A CA 2248586 A1 CN 1221414 A ,B EP 0888333 A1 HU 9903047 A2 JP 2001526627 T NO 984146 A	17-08-2000 01-10-1997 27-07-1999 18-09-1997 30-06-1999 07-01-1999 28-05-2001 18-12-2001 30-10-1998

INTERNATIONAL SEARCH REPORT

Information on patent family members

PCT/GB2004/000695

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 9733882	A	NZ 331813 A	30-03-2001
		RU 2202549 C2	20-04-2003
		US 6268392 B1	31-07-2001
		US 2004014803 A1	22-01-2004
		US 2003171426 A1	11-09-2003
		WO 9733882 A1	18-09-1997
		US 5994391 A	30-11-1999
		US 6107494 A	22-08-2000
		US 6221897 B1	24-04-2001
		US 6262277 B1	17-07-2001
		US 6420417 B1	16-07-2002
		US 2002013476 A1	31-01-2002
WO 9605188	A	22-02-1996	
		AP 720 A	08-01-1999
		AT 226946 T	15-11-2002
		AU 696073 B2	03-09-1998
		AU 4426096 A	07-03-1996
		BG 62048 B1	29-01-1999
		BG 101209 A	29-08-1997
		BR 9508586 A	14-07-1998
		CA 2197099 A1	22-02-1996
		CN 1161035 A ,B	01-10-1997
		CZ 9700373 A3	13-08-1997
		DE 69528704 D1	05-12-2002
		DE 69528704 T2	12-06-2003
		DK 775126 T3	03-03-2003
		EE 9700028 A	15-08-1997
		EP 1203769 A1	08-05-2002
		EP 0775126 A1	28-05-1997
		ES 2185711 T3	01-05-2003
		FI 970531 A	07-02-1997
		WO 9605188 A1	22-02-1996
		HK 1003936 A1	14-03-2003
		HU 77129 A2	02-03-1998
		IL 114877 A	14-07-1999
		JP 2935756 B2	16-08-1999
		JP 10504035 T	14-04-1998
		NO 970585 A	07-04-1997
		NZ 290911 A	28-07-1998
		OA 10597 A	22-08-2002
		PL 318496 A1	23-06-1997
		PT 775126 T	28-02-2003
		RU 2156245 C2	20-09-2000
		SK 17797 A3	10-09-1997
		ZA 9506647 A	10-02-1997
WO 9608484	A	21-03-1996	
		AT 199718 T	15-03-2001
		AU 700557 B2	07-01-1999
		AU 3373695 A	29-03-1996
		BR 9508916 A	30-12-1997
		CA 2199944 A1	21-03-1996
		CN 1162311 A ,B	15-10-1997
		DE 69520364 D1	19-04-2001
		DE 69520364 T2	13-09-2001
		DK 781278 T3	17-04-2001
		EP 0781278 A1	02-07-1997
		ES 2155136 T3	01-05-2001
		GR 3035583 T3	29-06-2001

INTERNATIONAL SEARCH REPORT

Information on patent family members

PCT/GB2004/000695

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 9608484	A		JP 10505830 T	09-06-1998
			JP 3304093 B2	22-07-2002
			PT 781278 T	30-08-2001
			US 6268392 B1	31-07-2001
			US 2004014803 A1	22-01-2004
			US 2003171426 A1	11-09-2003
			WO 9608484 A1	21-03-1996
			US 5994391 A	30-11-1999
			US 6107494 A	22-08-2000
			US 6262277 B1	17-07-2001
			US 6420417 B1	16-07-2002
			US 2002013476 A1	31-01-2002
EP 0864582	A	16-09-1998	EP 0864582 A2	16-09-1998
			AT 242258 T	15-06-2003
			AU 731575 B2	05-04-2001
			BR 9801126 A	21-03-2000
			CA 2231971 A1	14-09-1998
			CN 1194979 A , B	07-10-1998
			CZ 9800759 A3	16-09-1998
			DE 69815180 D1	10-07-2003
			DE 69815180 T2	29-04-2004
			DK 864582 T3	29-09-2003
			ES 2198613 T3	01-02-2004
			HU 9800541 A2	28-06-1999
			ID 20053 A	17-09-1998
			IL 123648 A	21-11-2000
			JP 3282998 B2	20-05-2002
			JP 10279568 A	20-10-1998
			NZ 329932 A	28-01-1999
			PL 325363 A1	28-09-1998
			PT 864582 T	31-10-2003
			RU 2179977 C2	27-02-2002
			TR 9800444 A2	21-10-1998
			US 6020330 A	01-02-2000
			US 6114322 A	05-09-2000
			ZA 9802140 A	14-09-1998